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SPECIAL DATA COLLECTION SYSTEM (SDCS) EVENT REPORT,  
NORTH ATLANTIC OCEAN, 26 MAY 1975

K. J. Hill, et al

Teledyne Geotech

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**SPECIAL DATA COLLECTION SYSTEM EVENT REPORT**  
**North Atlantic Ocean, 26 May 1975**

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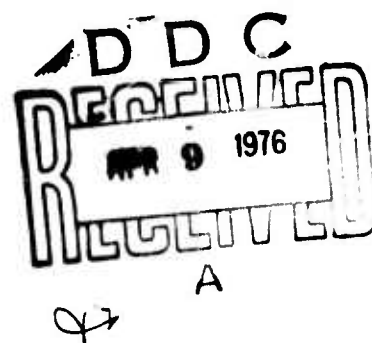
**January 1976**

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Unclassified

SDCS EVENT REPORT NO. 59

North Atlantic Ocean, 26 May 1975

This event report contains seismic data from the Special Data Collection System (SDCS), and other sources for the above event. Published epicenter information from seismic observations is:

	"P" Arrival	Origin Time	Lat.	Long.	$m_b$	$M_s$
NORSAR	09:18:06.1	09:12:53	36 N	018 W	6.3	N/A
LASA	09:22:23.3	09:11:34	32.2N	016.7W	6.8	N/A
IDE		09:11:50.9	35.8N	017.6W	N/A	8.0

Using SDCS stations, LASA and NORSAR, the epicenter location and magnitudes become

09:11:54.5    36.8N    018.1W    6.4    N/A

All SDCS stations were operational during this period.

Short-period signals associated with this event were recorded at all SDCS stations, LASA and NORSAR. Horizontal SP channels at HN-ME and RK-ON were rotated. Signal clipping prevented rotation of the SP horizontal channels at WH2YK, FN-WV and CPSO.

Long-period signals were recorded at all SDCS stations and NORSAR. Signal clipping prevented rotation of horizontal LP channels at all SDCS stations. Validity of the NORSAR long-period vertical beam is uncertain and horizontal channels were not included because of program recovery problems. ALPA and LASA long-period array data were not recoverable.

Scaling factors on plots are millimicrons at 1 Hz (not corrected for instrument response) with the exception of LASA and NORSAR short-period plots. LASA SP scaling factors are millimicrons per inch. Scaling factors are not reported for NORSAR short-period.

# STATION DESCRIPTION

SITE CODE	LOCATION	SITE COORDINATES		ELEVATION METERS	INSTRUMENTATION	
		DEG	NN SECS		SHORT-PERIOD	LONG-PERIOD
ALPA	Alaska	65 14	00.0 N	626	None	31300
		147 44	36.0 W			
CPSO	McMinnville, Tennessee	35 35	41.4 N	574	6480 V 7515 H	SL210 V SL220 H
		085 34	13.5 W			
FN-WV	Franklin, West Virginia	38 32	58.0 N	910	KS36000	KS36000
		079 30	47.0 W			
LASA	Billings, Montana	46 41	19.0 N	744	HS10	7505A V 8700C H
		106 13	20.0 W			
HN-ME	Houlton, Maine	46 09	43.0 N	213	18300	SL210 V SL220 H
		067 59	09.0 W			
NORSAR	Kjeller, Norway	60 49	25.4 N	379	HS10	7505A V 8700C H
		010 49	56.5 E			
RK-ON	Red Lake, Ontario	50 50	20.0 N	366	18300	SL210 V SL220 H
		093 40	20.0 W			
WH2YK	White Horse, Yukon	60 41	41.0 N	855	18300	SL210 V SL220 H
		134 58	02.0 W			

Note: The orientation of the radial instruments at FN-WV is assumed to be 316° + 5° based on empirical data (event recordings). Rotation, where performed, is referenced to this azimuth and may be questionable.

# HYPOCENTER DETERMINATION

INPUT FOR EVENT 26 MAY 75  
09:11:34.0 32.199N 16.700W 0FM.

STA.	ARRIVAL	RESIDUALS		DIST.	AZ.
		CAIC	FEST		
NAC	09 18 06.1	-0.0	0.1	30.2	28.1
HN-ME	09 19 13.0	-0.1	0.0	38.0	300.3
FN-WV	09 20 33.4	0.4	0.4	47.8	291.7
CFC	09 21 14.7	-0.3	-0.3	53.4	290.3
RK-CN*	09 22 14.5	55.5 *	55.4 *	54.0	310.6
IAC	09 22 23.3	-0.1	-0.2	63.2	309.6
WH2YK	09 23 07.3	0.1	-0.1	70.1	332.2

## 67 HERRIN TRAVEL TIME TABLES

ORIGIN	LAT.	LCNG.	DEPTH (KM)	SDV	IT	STA
09:11:58.0	36.795N	18.142W	23. CAIC	0.2	5	6
09:11:54.5	36.780N	18.145W	0. FEST	0.2	4	6

CAIC				FEST			
1 . 1				1 . 1			
2	.	0		2	.	0	
2	0. 0	0		2	0. 0	0	
.	.	.	.	.	.	.	.
0	0. 0	0		0	0. 0	0	
0	.	0		0	.	0	
0	0			0	0		

CHI2 COVERAGE ELLIPSE; 95 PER CENT CONFD. LEVEL, SDV= 1.11  
MAJOR 223.3KM. MINOR 28.1KM. AZ= 157 AREA= 19740 SQ.KM. FEST

\* RK-CN NOT USED IN HYPOCENTER DETERMINATION DUE TO  
APPROXIMATE TIME CORRECTION OF 27 MINUTES 30 SECONDS.

# DATA SUMMARY

INPUT FOR EVENT      26 MAY 75  
09:11:34.0      32.199N      16.700W      0KM.

STA.	PHASE	ARRIVAL		INST	PER	A/T	MAGNITUDE		DIP	DIST
		TIME					MB	MS		
NAC	EP	09 18 06.1		AE	0.8	696.	6.17			30.2
HN-ME	EP	09 19 13.0		SPZ	0.9	1310.	6.32			38.0
FN-WV	EP	09 20 33.4		SPZ	1.7	9999.				
CPO	EP	09 21 14.7		SPZ	1.7	9999.				
RK-CN*	EP	09 22 14.5		SFZ	1.9	4250.	7.13			54.0
IAC	EP	09 22 23.3		AE	1.1	1341.	6.75			63.2
WH2YK	EP	09 23 07.3		SFZ	0.6	9999.				

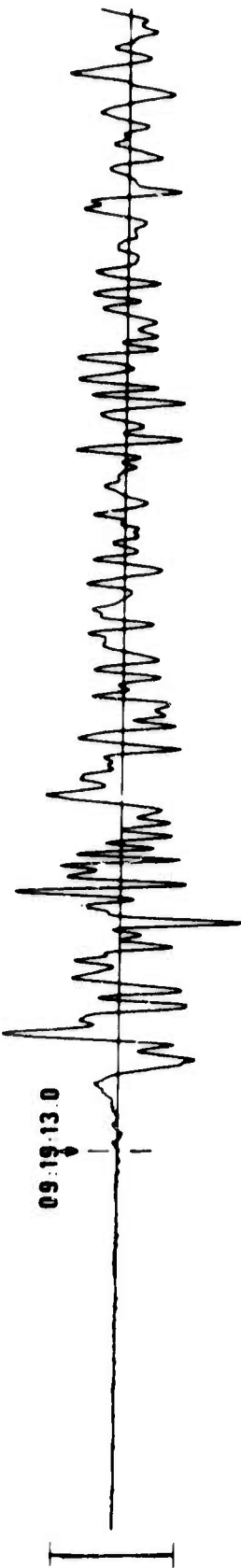
ORIGIN	LAT.	LCNG.	DEPTH (KM)	MAG	SDV	STA
09:11:58.0	36.795N	18.142W	23. CALC	6.40	0.28	3
09:11:54.5	36.780N	18.145W	0. REST	6.41	0.30	3

\*RK-ON NOT USED IN HYPOCENTER DETERMINATION DUE TO  
APPROXIMATE TIME CORRECTION OF 27 MINUTES 30 SECONDS.

HN-ME 26 MAY 75

SPZ  
1136.69 MHz

09:19:13.0

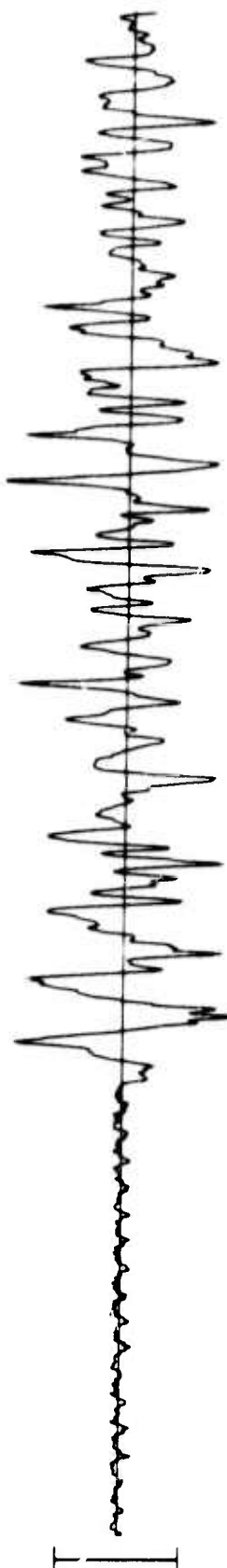


SPR  
836.59 MHz



S

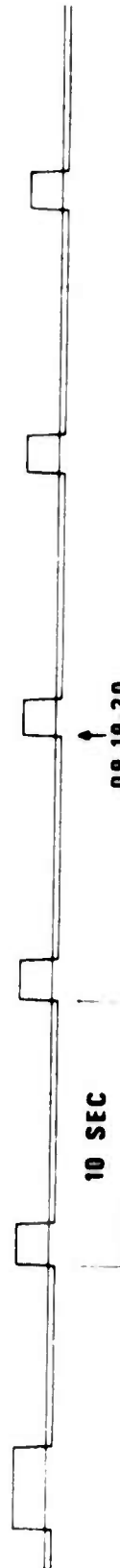
SPT  
340.25 MHz



TIME

10 SEC

09:19:30



FN-WV 26 MAY 75

09:20:33.4

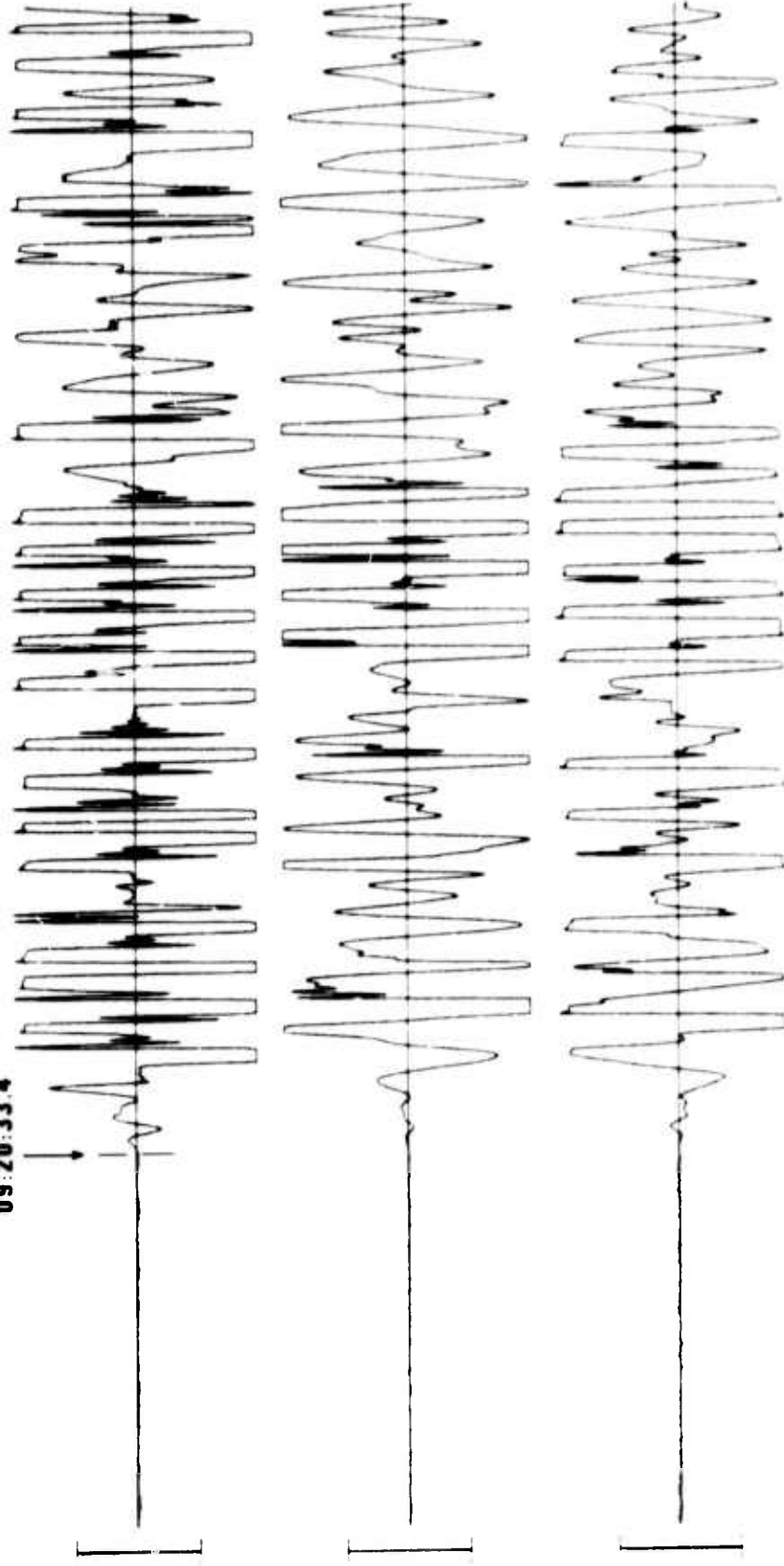
SPZ  
460.17 Mu

SPR  
471.799 Mu

2

SPV  
599.83 Mu

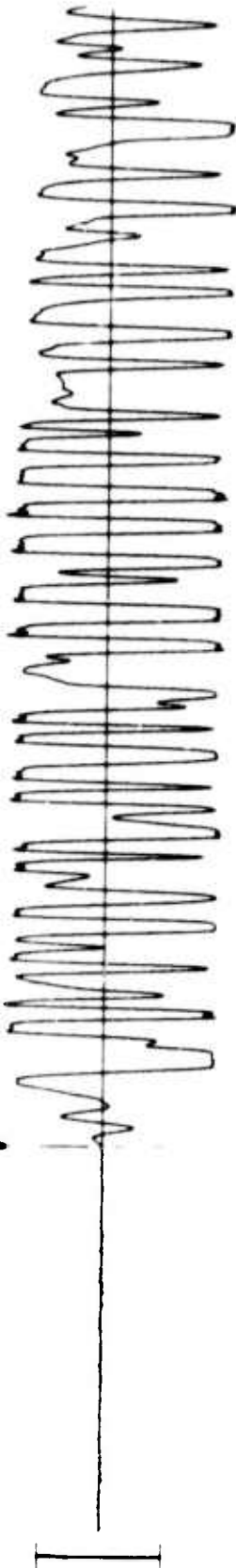
10 SEC



CPSO 26 MAY 75

09:21:14.7

SPZ  
940 20 Mμ

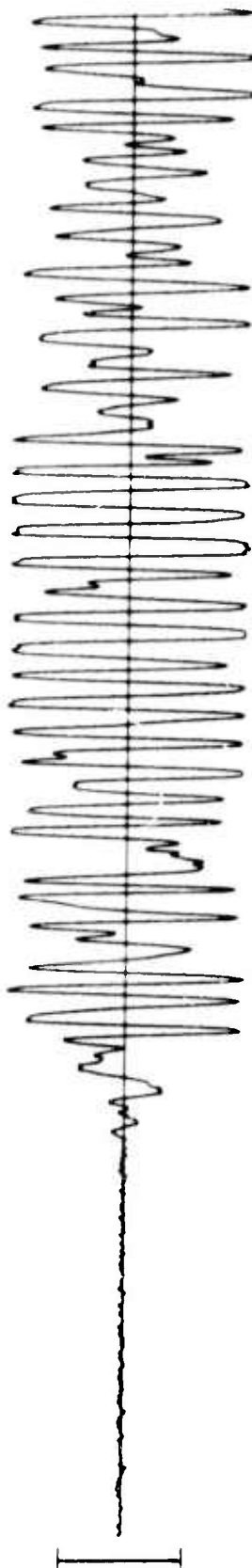


SPN  
455 35 Mμ



∞

SPE  
416 26 Mμ



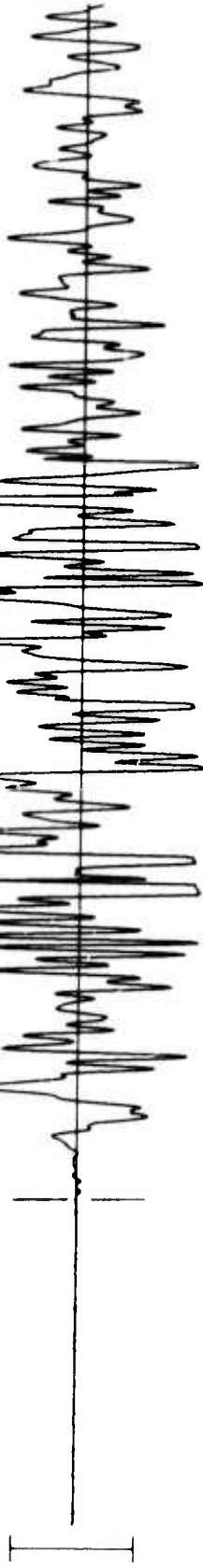
TIME



RK-ON 26 MAY 75

08:54:44.5' (UNCORRECTED)

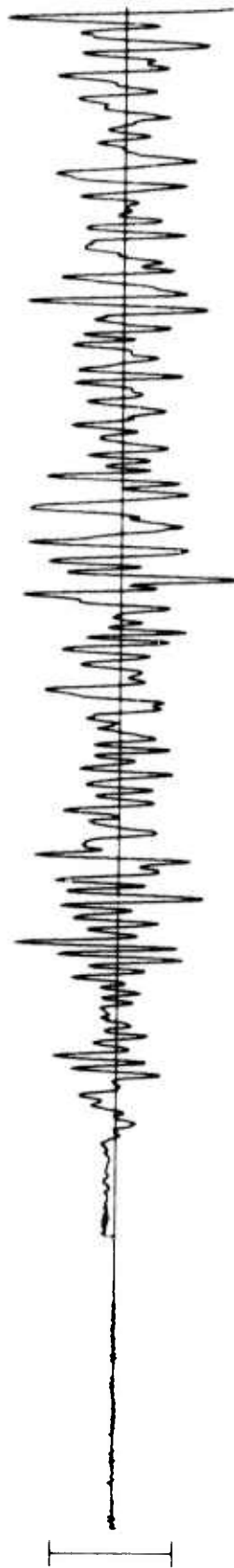
SPZ  
931.45 Mμ



SPR  
762.47 Mμ

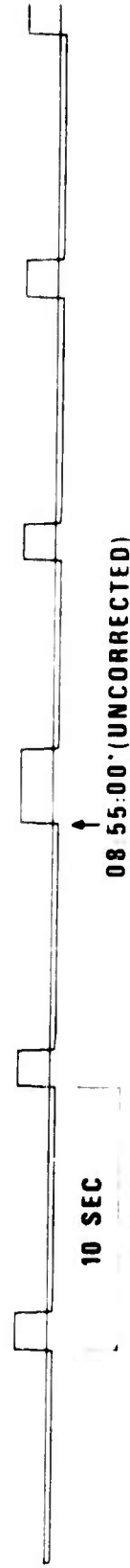


SPT  
596.78 Mμ



6

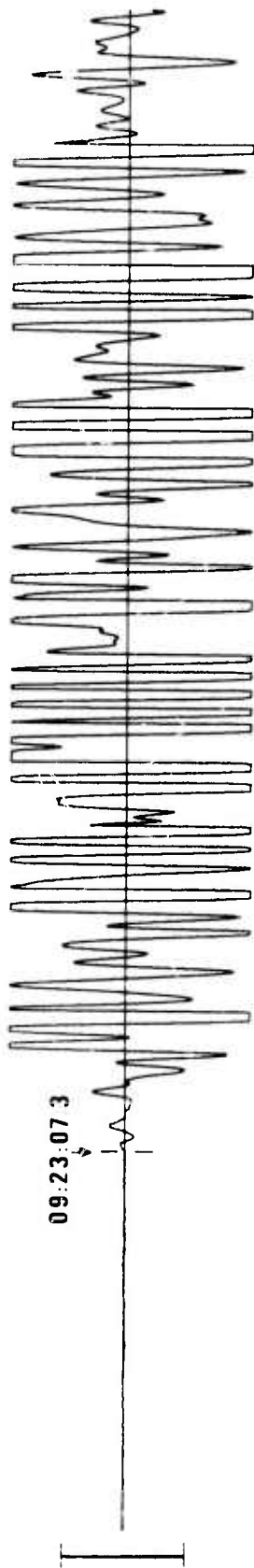
TIME



\*APPROXIMATE TIME CORRECTION +27 MINUTES 30 SECONDS

WH2YK 26 MAY 75

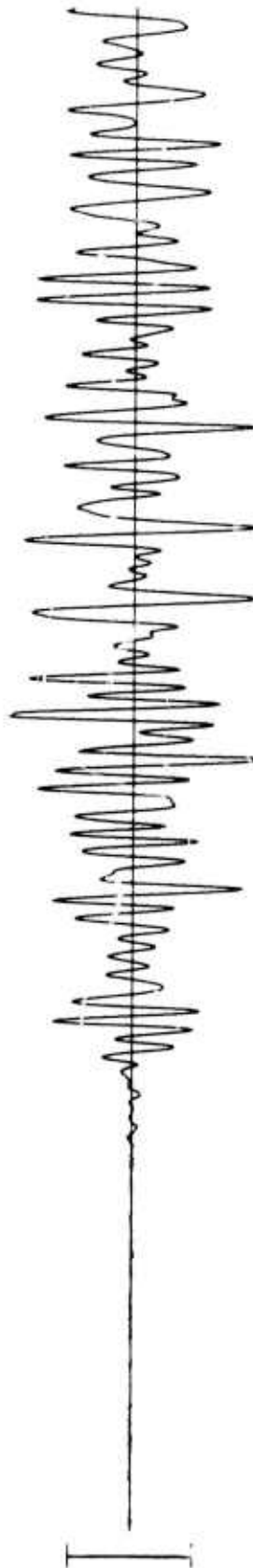
SPZ  
783.65 MHz



SPR  
506.27 MHz

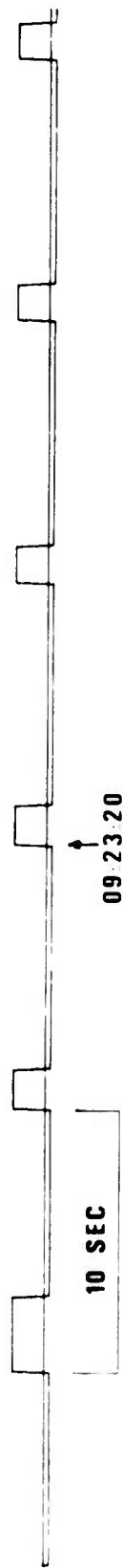


SPT  
901.64 MHz



10

TIME



# NORSAR EVENT FILE

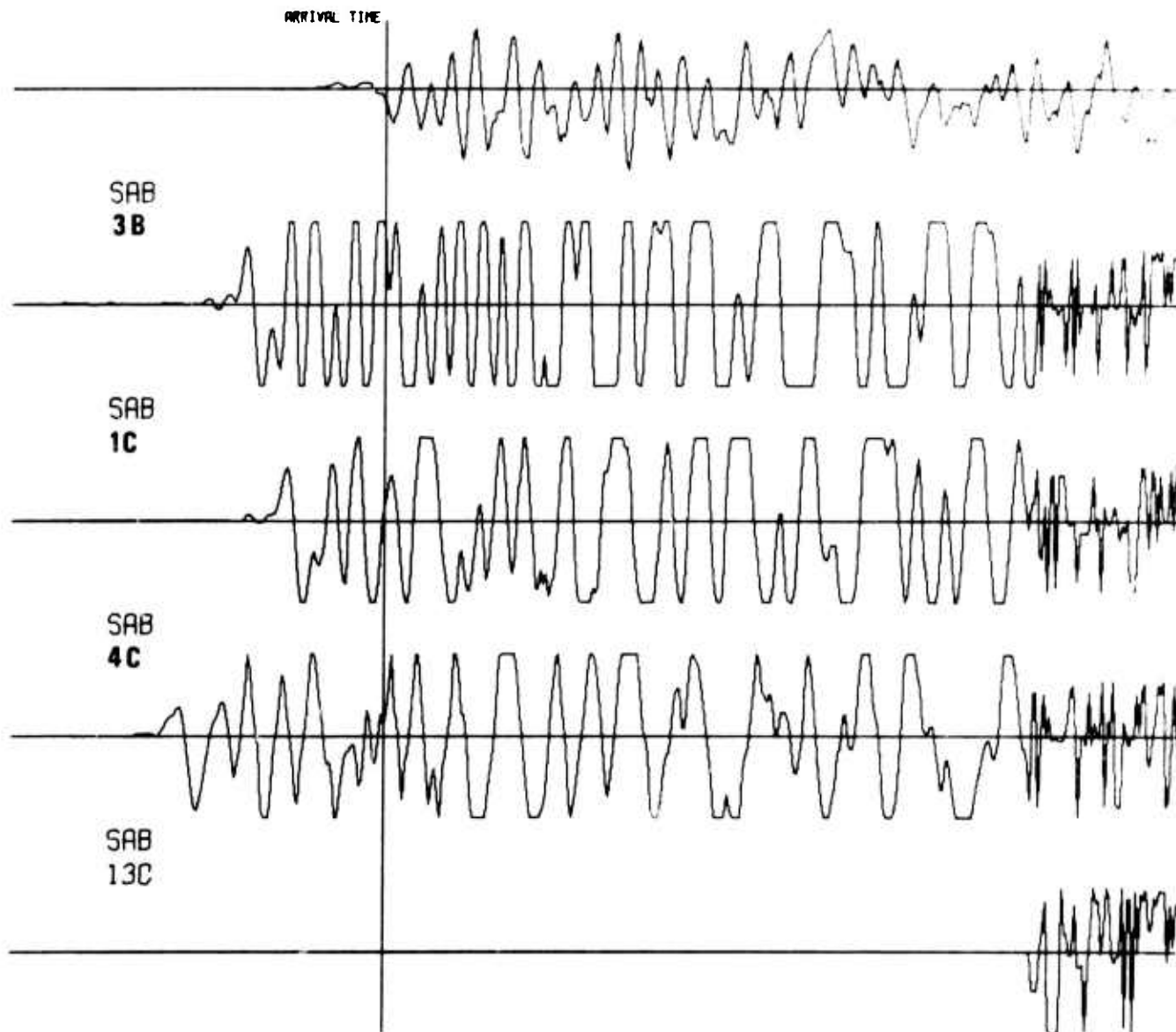
1975 MAY 26

EPX NO. 68210 ARR. 9.18.7.1 48.2N 32.8W 5.3MB 33KM

DIST = 27.7 AZI = 262.7 AMP = 37.2 FER = 0.8

————— = 5 SECONDS

AB



# LASA

1. 26 MAY 1975

2 9 11 45 32.5N 19.2W 330 C 6.2 393 MADEIRA ISLANDS REGION

3 9 22 23.3 LAO P 493.6 1.5 17.1 65.3 68.3

EPX 9271

ABN 34

09:22:13.3

BP-B 0.6-2.0 HZ

AB 2420

FAB 1700

WAB 1800

PAB1 1950

PAB2 1680

PAB3 1560

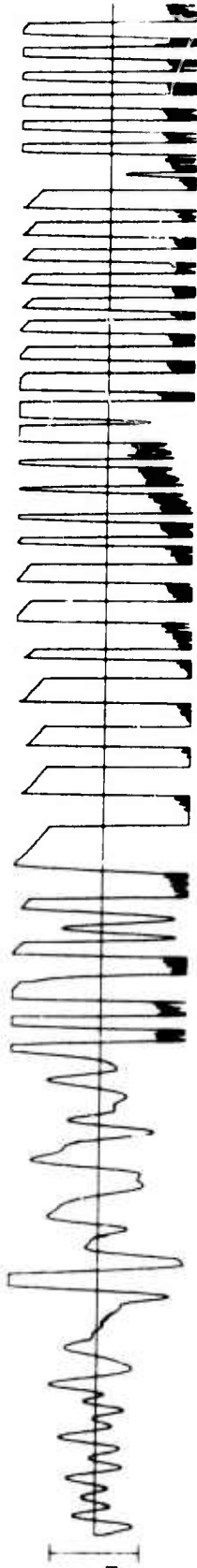
PAB4 1660

10 SEC

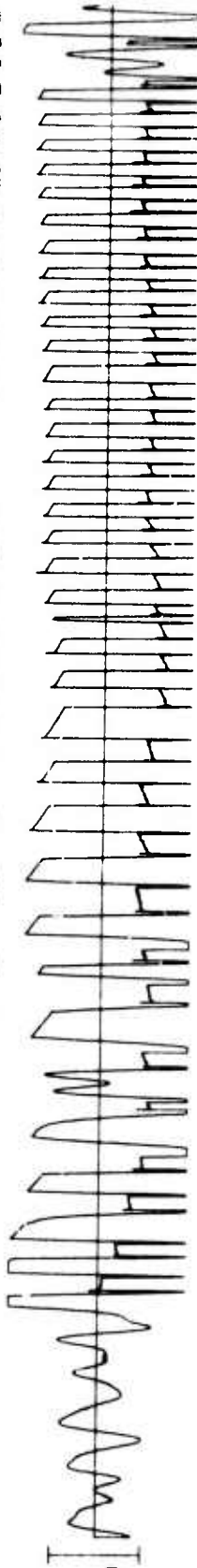
12

HN-ME 26 MAY 75

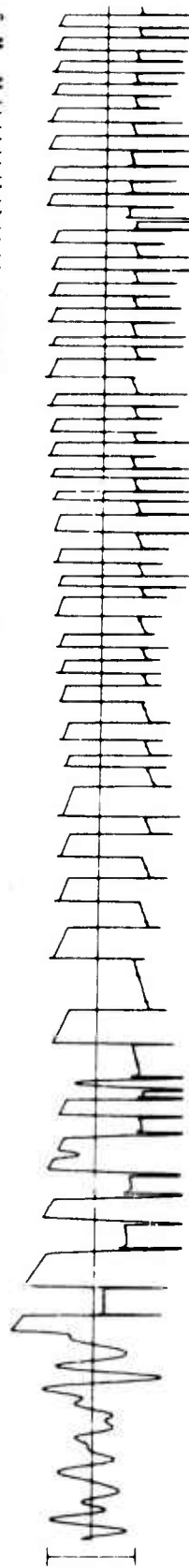
LPZ  
38028.38 MHz



LPR  
40924.58 MHz



LPT  
5958.93 MHz



13

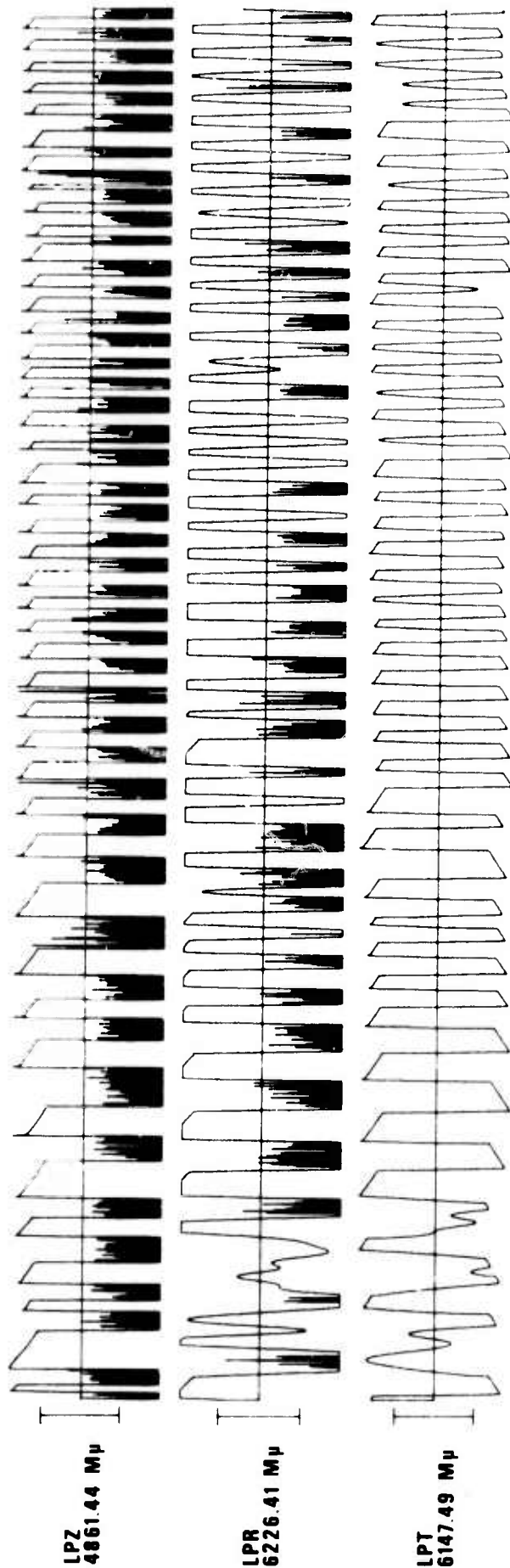
TIME



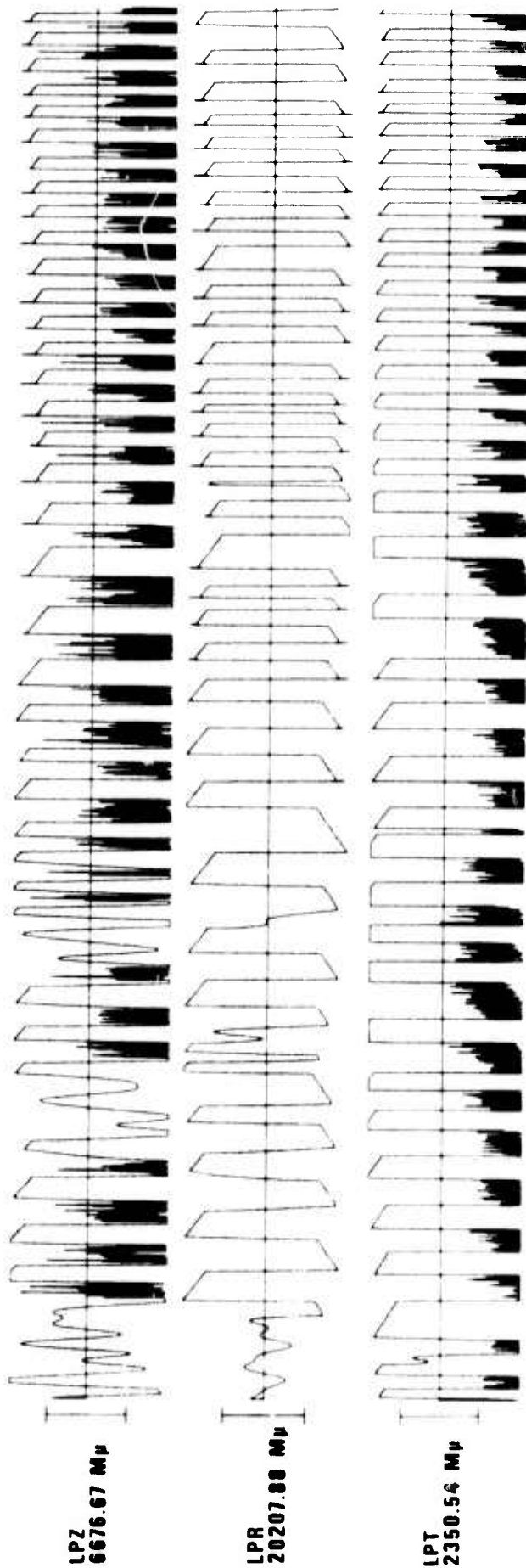
2 MIN

09:30:00

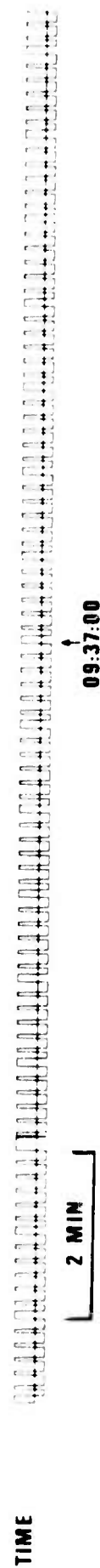
FN-WV 26 MAY 75



CPSO 26 MAY 75

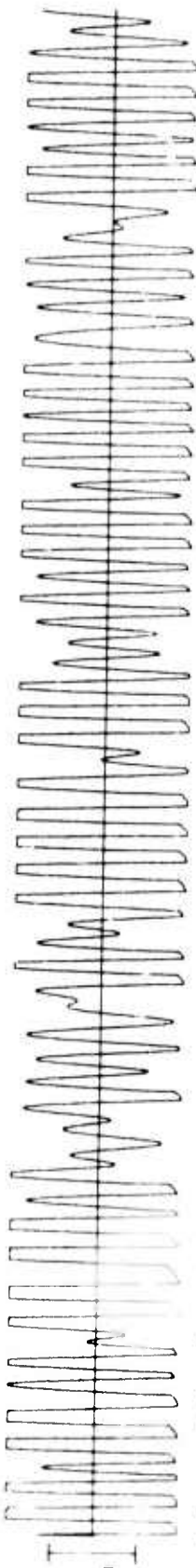


15

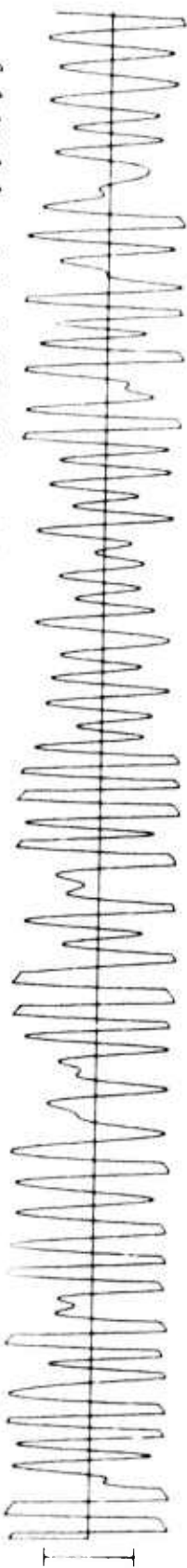


RK-ON 26 MAY 75

LPZ  
56258.28 Mμ



LPR  
732.105 Mμ



LPT  
6580.35 Mμ

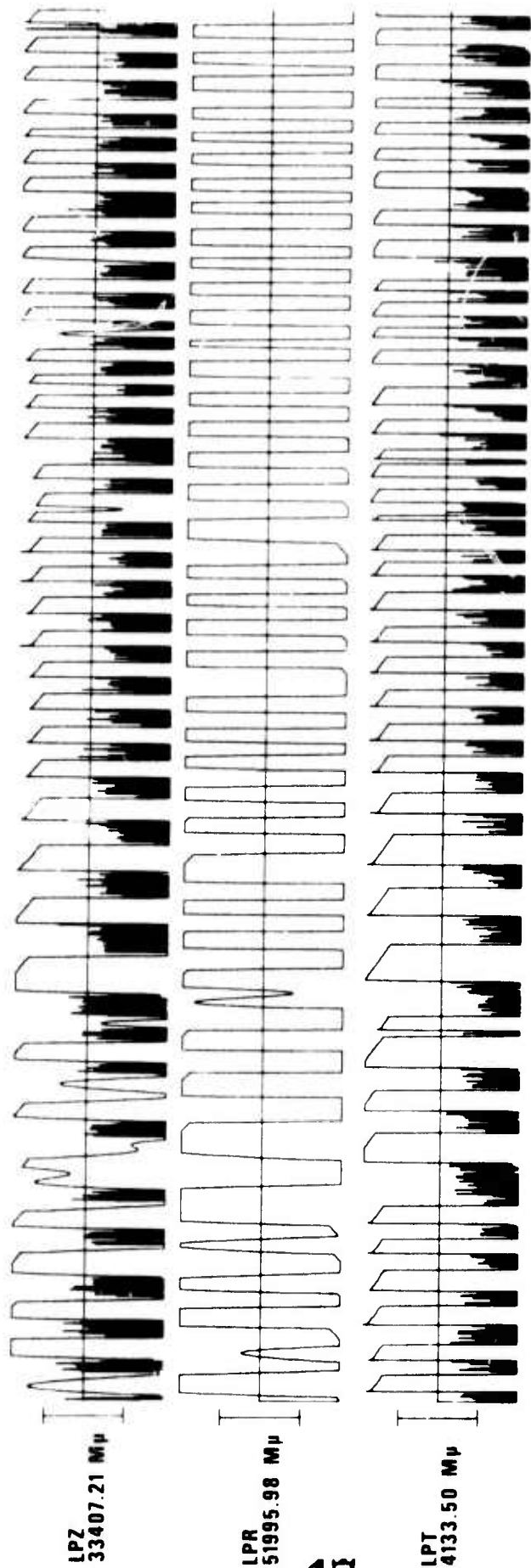


16

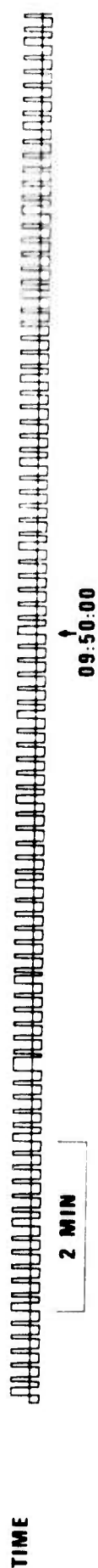
TIME



WH2YK 26 MAY 75



17



**NORSAR LONG PERIOD VERTICAL BEAM 26 MAY 75**

